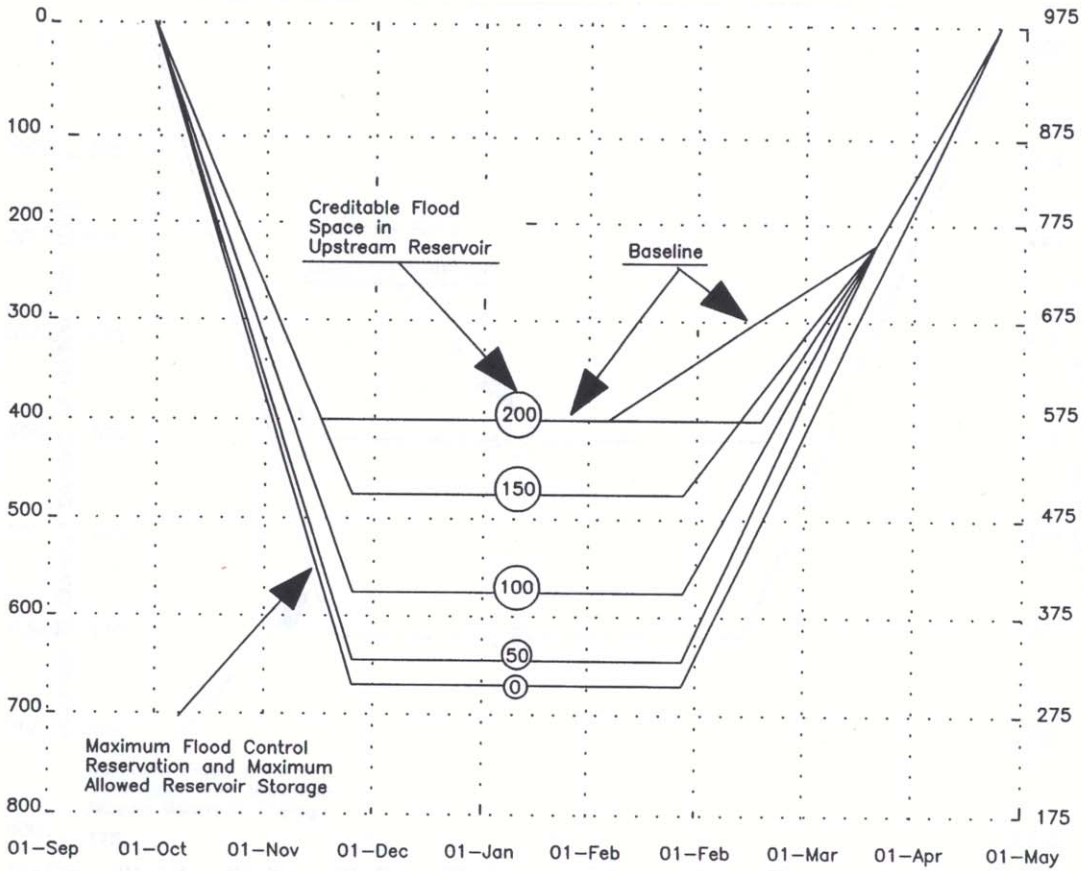
FLOOD CONTROL DIAGRAM FOR FOLSOM DAM AND LAKE



USE OF DIAGRAM

1. Folsom Dam and Lake shall be operated for flood control in accordance with the Flood Control Reservation, reservoir releases must be in accordance with requirements of this diagram.

2. The parameters on the flood control diagram define the required Flood Control Reservation, on any given day, based on available space in the upstream reservoirs. Once the required Flood Control Reservation is computed, the Required Reservoir Storage for flood control can be determined. Water stored in excess of the Required Reservoir Storage must be evacuated. Computation of the parameter is discussed below:

FOLSOM DAM AND LAKE
COMPUTATION OF REUQIRED RESERVOIR STORAGE

1. Compute space available below spillway crest, in acre–feet, for the following reservoirs: French Meadows, Hell Hole, and Union Valley.
2. The amount of creditable flood control transfer space in each reservoir is then computed by taking the smaller of the space available or the maximum creditable space for that reservoir.

   a. The maximum creditable space by reservoir is as follows:
      French Meadows – 45,000 acre–feet
      Hell Hole – 80,000 acre–feet
      Union Valley – 75,000 acre–feet

3. Determine the Flood Control Reservation at Folsom Lake by Applying the creditable flood control transfer storage space (parameter on the diagram in 1,000 acre–feet).
During a potential flood situation, water stored within the flood control reservation defined hereon, shall be released as rapidly as possible subject to the following schedule:

   a. Reuqired flood control release – Promptly release inflow up to 115,000 CFS while inflows are increasing, as dicussed in the Folsom Dam Release Schedule. Control flows in the American River below the dam to not more than 115,000 cfs, except when larger releases are required by the accompanying EMEMGENCY SPILLWAY RELEASE DIAGRAM (ESRD). Once the reservoir pool begins falling, maintain releases in excess of inflow until water stored in the Flood Control Reservation is evacuated.

   b. Releases will not be increased more than 15,000 cfs or decreased more than 10,000 cfs during any 2 hour period.

SAMPLE COMPUTATION

RESERVOIR	STORAGE ON JAN 1 (TAF)	STORAGE AT SPILLWAY CREST (TAF)	SPACE AVALIABLE (TAF)	MAXIMUM CREDITIBLE SPACE (TAF)	CREDITIBLE FLOOD CONTROL TRANSFER SPACE (TAF)
French Meadows	75.7	110.7	35.0	45.0	35.0
Hell Hole	87.6	207.6	120.0	80.0	80.0
Union Valley	170.1	235.1	65.0	75.0	65.0
Total Creditable Flood Control Storage Space					180.0
Flood Control Reservation at Folsom Lake					420.0
Required Reservoir Storage at Folsom Lake (TAF)					555.0

AMERICAN RIVER WATERSHED PROJECT, CALIFORNIA
Limited Reevaluation Report
FOLSOM DAM MODIFICATION PROJECT

FOLSOM DAM AND RESERVOIR
EXISTING VARIABLE SPACE
FLOOD CONTROL DIAGRAM
400,000 – 670,000 acre feet

SACRAMENTO CORPS OF ENGINEERS
August 2001